PUBLICATION NUMBER : 2001042662
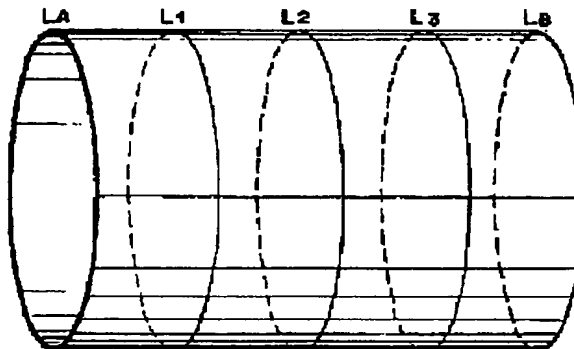PUBLICATION DATE : 16-02-01

APPLICATION DATE : 30-07-99
APPLICATION NUMBER : 11217486

APPLICANT : CANON INC;

INVENTOR : KUSABA TAKASHI;

INT.CL. : G03G 15/16 B65H 5/02

TITLE : BELT-TYPE TRANSFER MEMBER AND
IMAGE FORMING DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To stably rotate a belt-type transfer member and to obtain color image with little color slurring due to its meandering by importing difference between the right and left on the diameter of the belt of the belt type transfer member so that sidling force may be generated.

SOLUTION: If the peripheral length of both ends of a belt-type transfer member is defined as LA and LB, LA and LB and the peripheral length LX of an optional point between LA and LB are always in the range where LA>LB and LA≥LX≥LB(here, excluding LA=LX=LB), and a difference between the average value and the maximum value or the minimum value of the peripheral length is 1.6 to 10 mm. When the difference between the average value and the maximum value or the minimum value of the peripheral length of the belt is smaller than 1.6 mm, appropriate transverse stress is not generated, so that meandering is cannot be regulated. However, if the difference in the peripheral length is larger than 10 mm, the stress in the lateral direction generated when the belt is rotated is too strong such that is disturbs stable traveling or causes the belt to break. Therefore, it is necessary that the difference between the average value and the maximum value or the minimum value of the peripheral length of the belt be set between 1.6 to 10 mm.